

Position Brief

Project Engineer – BIM Manager or BIM Coordinator

Strategic Innovation Division

Construction position based in Scottsdale, Arizona with this highly-regarded, privately-held company that develops, designs and builds some of Chicago's and Phoenix's most acclaimed luxury residential and mixed-use communities – 30 Awards for Design and Environmental Excellence spanning thirty development projects to-date. The Company, founded by award-winning architect David C. Hovey FAIA, directs and manages every aspect of real estate development - development, design, construction, sales and property management. As **optima** enters its fourth successful decade, it is committed to the company-wide promotion and implementation of Building Information Modeling (BIM) and Virtual Building Technologies as means to advance design, sustainability and project efficiency. This achievement will be a function of the new Strategic Innovation division that integrates innovative solutions into the master planning, creative development, design, engineering, production, project management and research/development components of the firm.

Position

This newly-created, strategically important position in “virtual building” will have a large impact on an already successful organization. The Project Engineer plays an active role in the ongoing efforts to evolve and redefine the landscape of **optima**'s vertically integrated project delivery processes by employing real estate development, construction management and engineering principles to project management elements. This Specialist is expected to provide ongoing development and support for integrated BIM platforms. The role will focus on integrating Project Management data into virtual design/construction solutions to develop useful exhibits, decision-making tools and information reports for company projects. The Project Engineer will also focus on cost tracking and scheduling and be responsible as the primary construction liaison between the broader multi-disciplinary project environment spectrum and the division head, the Vice President – Strategic Innovation, a highly-regarded and distinguished professional, and to whom this role reports.

Functional Responsibilities

- Function as primary construction liaison to Division Leader (Vice President - Strategic Innovation), communicating status, issues, remedies, establishing tracking and scheduling parameters, developing technical documents, plans, specifications and material schedules based on company/division requirements;
- Formulate, communicate, execute and support new and existing strategic initiatives, including company-wide BIM implementation in support of the following real estate development and construction management activities:
 - Focus on project tracking and scheduling with an emphasis on creating a quantity take-off solution to generate a set of take-off elements (e.g., counts, measurements and conditions that will affect cost);
 - Develop a practical and effective construction sequence schedule, i.e., determining an activity's immediate or delayed impact and tracking activities' status and effects on schedule consideration;
 - Evaluate all cost possibilities and develop cost estimating system to include relevant indices, productivity rates, labor and materials costs;
 - Implement 4D scheduling technology to ultimately include a full cost-benefit analysis of this technology;
 - Assist with direction and liaise with appropriate subcontractors, vendors and consultants to monitor productivity and costs and utilize the data to provide direction to construction project team;
 - Work in conjunction with BIM MEP Specialist to control delivery of design/engineering services from proposal/concept stage to project completion and ensure engineering compliance;
 - Coordinate field details, assist with site inspections vis-à-vis the reporting function (i.e., daily and environmental reports);
 - Establish/maintain/monitor document control logs, e.g., RFIs and GSDMSs;

- Assist Lead Superintendent and Field Superintendents with producing, providing and coordinating all information necessary for the smooth running of the project and coordinate with Project Managers to expedite project deliverables;
- Assist in developing proposals, estimates, presentations and other documents, as required ;
- Oversee project safety in design and construction;
- Promote the advancement of the firm's BIM initiatives, e.g., develop/coordinate training strategies and coach colleagues in both Arizona and Illinois offices;
- Document and apprise VP and Division BIM Specialist teammates (Architect, Building System Engineer and Architectural Visualizer) of progress, issues and/or problems on a regular and proactive basis, while assisting in recommending and implementing improvements in existing design applications across the entities; and
- Interface with and present information to Founder, senior management, Director of Information Technology and other internal **optima** staff on a regular basis.

Ideal Candidate

- Bachelor's in Engineering (or similar Construction-related engineering disciplines) required for both Manager and Coordinator candidates; professional registration /or Master's desired for Manager candidate;
- BIM Manager position requires a minimum of 5 years project management design –build/vertical construction experience in Architecture, Engineering, Construction Technology, or related field performing project related tasks, including construction documents, construction details, code compliance tasks, /or construction decision support services – Coordinator candidate shall possess a minimum of 2 years experience;
- BIM experience with parametric cost estimating, project schedule management and schedule tools experience essential;
- Experience in concrete/steel frame, multi-phase, complex projects highly desirable;
- Proficiency with the following application will prove beneficial: *MS Project, Primavera, VICO, CommonPoint 4D, Innovaya, Timberline, NavisWorks, Autodesk Revit, Bentley Architecture, Graphisoft ArchiCAD, Tekla Structure, Revit Structure, Autodesk Building System* and/or any database applications (e.g., Oracle, SQL);
- Thorough understanding of parametric object-based design and construction drawings, including all components associated with Architecture, Civil/Site Engineering, Structural Engineering, Mechanical Engineering and Electrical Engineering;
- Familiarity with Design Build Inst. of America (DBIA), LEED or Value Engineering standards desired;
- Familiarity with IBC and other construction codes/standards;
- Ability to exercise judgment and discretion and to set priorities and manage competing demands;
- Demonstrate a reliable, responsive and positive work ethic with the highest degree of integrity; and
- Prior work experience in a privately-held company will prove beneficial, but not necessary.

Compensation **optima** encourages personal growth and offers an excellent salary + benefit package that includes 401(k) and company-paid life insurance. **Apply** via email with resume attachment to

resumes@optimaweb.com

www.optimaweb.com

"I take each building as a once-in-a-lifetime opportunity to do something really great and, hopefully, each building presents a new set of circumstances and issues. It's a passionate, lifelong search to create wonderful buildings that people can enjoy." -David C. Hovey FAIA